PATENT COOPERATION TREATY

PCT

REC'D 26 OCT 2005

INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70) REC'D 26 OCT 2003

PCT WIPO

Applicant's or agent's file reference Cal 87075				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No. PCT/IT 03/00738				International filing date (day/mo	onth/year) Priority date (day/month/year) 25.07.2003	
Interna	ationa	Pate	nt Classification (IPC) o	r both national classification and IPC	C	
AUIL	J34/C	iO .				
A 11 -						
Applica BCS		A. et	al.			
1.	. This international preliminary examination report has been prepared by this international Preliminary Examining Authority and is transmitted to the applicant according to Article 36.					
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.					
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which habeen amended and are the basis for this report and/or sheets containing rectifications made before this Autho (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
		(000	The forto and occ	don our of the Administrative ins	structions under the PCT).	
	11168	e an	nexes consist of a total	al of 2 sneets.		
	This I II III IV	repoi	Basis of the opinion Priority	of opinion with regard to novelty	/, inventive step and industrial applicability	
V 🖾 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applic citations and explanations supporting such statement				gard to novelty, inventive step or industrial applicability;		
	VI		Certain documents			
	VII VIII			ne International application	•	
	VIII		Certain observation	s on the international application	n	
Date o	of sub	missic	on of the demand	Data	of completion of this report	
				Date	s of completion of this report	
03.08.2004				21.1	10.2005	
Name prelim	and r	nailing exami	g address of the internationing authority:	ional Autho	norized Officer	
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465					nn, D	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IT 03/00738

I. Ba	asis	of	the	rep	ort
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages								
	1-15	5	as originally filed							
	Clai	Claims, Numbers								
	4(pa	art), 5-14	as originally filed							
	1-3,	4(part)	received on 29.07.2005 with letter of 27.07.2005							
	Dra	wings, Sheets								
	1/3-	3/3	as originally filed							
2.	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.									
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:							
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).							
		the language of publ	ication of the international application (under Rule 48.3(b)).							
			unslation furnished for the purposes of international preliminant examination (under							
3.	Witl inte	n regard to any nucle rnational preliminary (e otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:							
		contained in the inte	rnational application in written form.							
		filed together with the	e international application in computer readable form.							
			ntly to this Authority in written form.							
	☐ furnished subsequently to this Authority in computer readable form.									
		The statement that t	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.							
		The statement that the listing has been furnitude.	he information recorded in computer readable form is identical to the written sequence ished.							
4.	The	amendments have re	esulted in the cancellation of:							
		the description,	pages:							
		the claims,	Nos.:							
		the drawings,	sheets:							

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-14

Inventive step (IS)

No: Claims Yes: Claims

6-8,13

• • •

No: Claims

1-5,9-12,14

Industrial applicability (IA)

Yes: Claims

1-14

No: Claims

2. Citations and explanations

see separate sheet

V. Reasoned statement

- 1. Concerning the subject matter newly-introduced into claim 1:
 - i) The feature whereby the cutting assemblies have horizontal axes (I.7) is clearly derivable from the drawings;
 - ii) The feature wherein the blades have "the cutting edge of the blade parallel to the rotation axis" (I.8) is derivable from page 3, lines 12-14, and serves to render the terminology "spoon-like" understandable;
 - iii) The text of page 16a is not derivable from the application as originally filed; while there is a basis for the feature whereby shredding takes place at a location defined by the deflecting element and the two cutting assemblies, and that the action of said cutting assemblies is concurrent, this location is consistently referred to as a shredding *chamber*, there being no support for the broader terminology shredding *area*. (see claim 5; p.8, l.9-10; p.10, l.24 p.11, l.1; p.12, l.6-8). It follows that amendment iii) filed with the letter of 27/07/05 introduces subject-matter which extends beyond the content of the application as filed, contrary to Article 34(2)(b) PCT.
- 2. US-A-3 899 866 (D1) discloses (see, in particular, col.2, l.57 col.3, l.3; col.5, l.38-49; figs.1-4) a machine 10 comprising a protection element 12, wheels 18, cutting assembly 22 with lawn mower blades, cutting assembly 24 with shredding type blades and a deflecting element 102 protruding toward the inside of the protection element, as in lines 1-16 of claim 1. As said element 102 of D1 extends downwardly to such an extent that the upper portions of both cutting assemblies are enclosed (col.5, l.38-49 & fig.4), it is apparent that the deflecting element and two cutting assemblies cannot together define a shredding area as specified in claim 1. It follows that the subject matter of this claim meets the requirements of novelty, Article 33(2) PCT, with regard to D1. Moreover, as the shredding action of D1 takes place between assembly 24 and bed 26 (col.6, l.2-7), there would be no reason to modify the structure of said element 102 so as alter the shredding location. The subject matter of claim 1 thus also involves an inventive step, Article 33(3) PCT, with regard to D1.
- 3. US-A-5 070 683 (D2), DE-A-23 20 126 & FR-A-2 771 894 each disclose arrangements wherein one cutting assembly has a vertical axis and the other a

horizontal axis, and so are less relevant to the claimed machine, wherein each cutting assembly has a horizontal axis.

- 4. However, GB-A-2 260 683 (D3) discloses a machine comprising a protection element 4, roller 9, cutting assembly 5 with blades 11 having their cutting edge parallel to the rotation axis [cf. fig.3], cutting assembly 6 with shredding type blades 12 and a deflecting element [not labelled but clearly visible in fig.2], from which the machine of claim 1 differs in comprising a plurality of rollers, rather than a single roller. However, a minor difference of this sort is considered to involve an inventive activity, such that the subject matter of claim 1 fails to meet the requirements of Article 33(3) PCT. While there is no specific indication in D3 that the deflecting element defines together with the two cutting assemblies a shredding area, this feature is nevertheless apparent from figure 2. Concerning the further feature of claim 1 whereby the action of said cutting assemblies is concurrent, it is further apparent from the relative positions of the deflecting element and two cutting assemblies that grass cut by assembly 5 will be deflected by said element into said defined area, and that the grass will then be subjected to the concurrent action of said assemblies.
- 5. Concerning the additional subject matter of the dependent claims:
 - claims 2 & 14 merely relate to the $\it use$ of the machine, for which uses the machine of D3 would also be suitable;
 - claims 3-5,9-12 are known from D3;
 - claims 6-8 & 13 are not derivable from the available prior art (while a movable element is known from D2, in view of the different arrangement see above, point V.3 there would be no reason to apply such an element to the machine of D3). The subject-matter of claims 2-5, 9-12 & 14 thus fails to involve an inventive step, Article 33(3) PCT.
- 6. The embodiment of the invention described on page 13, lines 11-19 and shown in figure 4 does not fall within the scope of the claims, which as noted above require that the deflecting element defines together with the cutting assemblies a shredding area. This inconsistency between the claims and description leads to doubt concerning the matter for which protection is sought, thereby rendering the claims unclear, Article 6 PCT.

CLAIMS

- 1. A machine for cutting and triturating grass and other vegetable products, comprising a protection element
- 5 (30), equipped with wheels, rollers or slides (35) and containing at least one pair of cutting assemblies (15, with herizontol exis,
 - one cutting assembly (15) comprises blades the blade parellel to the roteton oxis, of the lawn mower type or of the spoon-like type (21) Vand one cutting assembly (16) comprises shredding type
- blades (22), and a deflecting element (25, 125, 25') being placed between the two cutting assemblies (15, 16) which causes the detachment of portions of the cut vegetable products from an inner wall of the protection element (30) and delivers them over the cutting assemblies
- 15 (15, 16), said deflecting element (25, 125, 25') protruding toward the inside of the protection element (30) (insert 160)
 - 2. Machine according to claim 1, characterized by the fact of being a lawnmower.
- 3. Machine according to claims 1 or 2, characterized 20 by the fact that said deflecting element (25, 125) is connected peripherally at least partially to the blades of both the two cutting assemblies (15, 16).
- Machine according to claims 1 or 2, characterized by the fact that said deflecting element (25) is of the
 wedge type, is fixed to said protection element (30) and

<and defining together with said two cutting assemblies
(15, 16) a shredding area of concurrent action of said two
cutting assemblies (15, 16).>

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